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with reviews by leading plant breeders.
Produced by the DIVISION OF CROP PROTECTION AND GENETICS

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DEPARTMENT OF PLANT BREEDING & GENETICS

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Coconuts	103	240	383	537	-	849	990	1148	-	1329	1575	-
Olives	104	-	-	537	-	849	991	-	1262	1330	1575	-
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1 → **12140** CHIUSA, G.; STANCANELLI, G.; ROSSI, V.; FALAVIGNA, A.
3 → **[Evaluation of resistance to *Stemphylium vesicarium* in asparagus hybrids and varieties.]** Valutazione della resistenza a *Stemphylium vesicarium* in ibridi ← 4
5 → e varietà di asparago. *Agricoltura Ricerca* (1993) **15** (141) 49-54 [It, en, ← 7
6 → 19 ref.] Istituto di Patologia Vegetale, Università Cattolica S. Cuore, Piacenza, ← 8
Italy.

9 → In tests of 19 varieties of *Asparagus officinalis*, the wild species *A. scaber*, and the ornamental species *A. sprengeri* [*A. densiflorus*] and *A. plumosus* [*A. setaceus*], inoculated in the greenhouse and growth chamber, the ornamentals showed only very small spots and these symptoms of infection appeared later than in the varieties, suggesting that the mechanism of resistance in these 2 species is different from that of *A. officinalis* and could be utilized in interspecific crosses. The varieties differed in their response, with Early of Argenteuil, Eros, Gladio and Golia being more resistant than Andreas and UC157.

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LANGUAGE ABBREVIATIONS

Af	Afrikaans
Al	Albanian
Ar	Arabic
Az	Azerbaijani
Be	Byelorussian
Bg	Bulgarian
Ch	Chinese
Cs	Czech
Da	Danish
De	German
Ee	Estonian
En	English
Eo	Esperanto
Es	Spanish
Fi	Finnish
Fr	French
Gr	Greek
He	Hebrew
Hu	Hungarian
Hi	Hindi
Ia	Interlingua
In	Indonesian
Is	Icelandic
It	Italian
Ja	Japanese
Ko	Korean
La	Latin
Li	Lithuanian
Lv	Latvian
Ma	Macedonian
My	Malay and Bahasa Malaysia
Nl	Dutch, Flemish
No	Norwegian
Pe	Persian
Pl	Polish
Pt	Portuguese
Ro	Romanian
Ru	Russian
Sh	Serbo-Croat (either script)
Sk	Slovak
Sn	Slovene
Sv	Swedish
Ta	Tajik
Th	Thai
Tr	Turkish
Uk	Ukrainian

COMMONLY USED ABBREVIATIONS AND ACRONYMS

AVRDC	Asian Vegetable Research and Development Center
bp	base pairs
CAAS	Chinese Academy of Agricultural Science
CaMV	cauliflower mosaic caulimovirus
CAT	chloramphenicol acetyl transferase
CIAT	Centro Internacional de Agricultura Tropical (International Center for Tropical Agriculture)
CIMMYT	Centro Internacional de Mejoramiento de Maíz y Trigo (International Maize and Wheat Improvement Center)
CIP	Centro Internacional de la Papa (International Potato Center)
CMS	cytoplasmic male sterility
ctDNA	chloroplast DNA
DM	dry matter
EUCARPIA	European Association for Research on Plant Breeding
GCA	general combining ability
GUS	beta-glucuronidase
HPLC	high performance liquid chromatography
IBPGR	International Board for Plant Genetic Resources
ICARDA	International Center for Agricultural Research in the Dry Areas
ICRISAT	International Crops Research Institute for the Semi-Arid Tropics
IITA	International Institute of Tropical Agriculture
ILCA	International Livestock Centre for Africa
IRRI	International Rice Research Institute
kb	kilobases
mRNA	messenger RNA
MS medium	Murashige & Skoog medium
mtDNA	mitochondrial DNA
MW	molecular weight
NOS	nopaline synthase
NPT	neomycin phosphotransferase
ORF	open reading frame
PAGE	polyacrylamide gel electrophoresis
PEG	polyethylene glycol
PMC	pollen mother cell
rDNA	ribosomal DNA
RFLP	restriction fragment length polymorphism
Ri	root-inducing
rRNA	ribosomal RNA
SCA	specific combining ability
SDS	sodium dodecyl sulfate
Ti	tumour-inducing
TLC	thin layer chromatography
tRNA	transfer RNA
USDA-ARS	US Department of Agriculture, Agricultural Research Service
VIR	All-Union Vavilov Institute of Plant Industry
WARDA	West Africa Rice Development Association

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Many other serials were scanned during 1993 but no relevant articles were selected. A full list of all the serials scanned for items suitable for abstracting for the CAB ABSTRACTS database and the whole range of CABI's abstract journals is given in the *CAB International Serials Checklist, 1988 edition*. The publication includes ISSNs and publishers' addresses.

ACIAR Forestry Newsletter
ACIAR Proceedings Series
Acta Academiae Agriculturae ac Technicae Olstenensis, Agricultura
Acta Agriculturae Boreali-Sinica
Acta Agriculturae Nucleatae Sinica
Acta Agriculturae Scandinavica. Section B, Soil and Plant Science
Acta Agriculturae Shanghai
Acta Agriculturae Universitatis Henanensis
Acta Agriculturae Universitatis Jiangxiensis
Acta Agriculturae Universitatis Pekinensis
Acta Agriculturae Universitatis Zhejiangensis
Acta Agriculturae Zhejiangensis
Acta Agronomica Hungarica
Acta Agronomica Sinica
Acta Alimentaria Polonica
Acta Biochimica et Biophysica Sinica
Acta Biologiae Experimentalis Sinica
Acta Biotheoretica
Acta Botanica Austro Sinica
Acta Botanica Boreali-Occidentalia Sinica
Acta Botanica Indica
Acta Botanica Neerlandica
Acta Botanica Sinica
Acta Botanica Yunnanica
Acta Facultatis Rerum Naturalium Universitatis Comenianae, Botanica
Acta Genetica Sinica
Acta Horticulturae
Acta Horticulturae Sinica
Acta Pedologica Sinica
Acta Phytopathologica et Entomologica Hungarica
Acta Phytopathologica Sinica
Acta Phytophylactica Sinica
Acta Phytophysiologica Sinica
Acta Scientiarum Naturalium Universitatis Normalis Hunanensis
Acta Universitatis Agriculturalis Boreali-Occidentalis
Actes et Communications - Economie et Sociologie Rurales, Institut National de la Recherche Agronomique
Actualidades Regional - Instituto Colombiano Agropecuario
Advances in Agronomy
Advances in Experimental Medicine and Biology
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Advances in Horticultural Science
Advances in Plant Breeding
Advances in Plant Sciences
African Journal of Ecology
Afro-Asian Nematology Network
Agbiotech News and Information
Agrarwirtschaft und Agrarsoziologie
Agricoltura Mediterranea
Agricoltura Ricerca
Agricultura Técnica (Santiago)
Agricultura, Revista Agropecuaria
Agricultural and Biological Chemistry
Agricultural and Forest Meteorology
Agricultural Science Digest
Agricultural Science in Finland
Agriculture and Horticulture
Agriculture in Northern Ireland
Agriculture International
Agriculture, Ecosystems & Environment
AgriScience
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Agrochimica
Agronômico
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Agronomie Tropicale
Agronomy and Soils Departmental Series - Alabama Agricultural Experiment Station
Agronomy Journal
Agrotrópica
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Albertoa
Aliso
Allgemeine Forst- und Jagdzeitung
Aloe
American Journal of Alternative Agriculture
American Journal of Botany
American Journal of Clinical Nutrition
American Journal of Enology and Viticulture
American Naturalist
American Orchid Society Bulletin
American Potato Journal
American Rhododendron Society Journal
Anadolu
Anais da Sociedade Entomológica do Brasil
Anales de la Academia Nacional de Ciencias Exactas, Físicas y Naturales de Buenos Aires
Anales del Jardín Botánico de Madrid
Analytical Biochemistry
Analytical Chemistry
Angewandte Botanik
Angewandte Chemie (English Edition)
Anhui Agricultural Science
Animal Feed Science and Technology
Animal Production
Annales de Gembloux
Annales des Sciences Forestières
Annales des Sciences Naturelles, Botanique et Biologie Végétale
Annali della Facoltà di Agraria, Università Cattolica del Sacro Cuore Milano
Annali della Facoltà di Agraria, Università degli Studi di Perugia
Annali della Facoltà di Scienze Agrarie della Università degli Studi di Napoli, Portici
Annals of Agricultural Research
Annals of Agricultural Science (Cairo)
Annals of Agricultural Science, Moshtohor
Annals of Applied Biology
Annals of Arid Zone
Annals of Biology (Ludhiana)
Annals of Botany
Annals of Forestry
Annals of Plant Physiology
Annals of the Missouri Botanical Garden
Annual Bulletin - British Society for Plant Growth Regulation
Annual Review of Ecology and Systematics
Annual Review of Genetics
Annual Review of Microbiology
Annual Review of Plant Physiology and Plant Molecular Biology
Antisense Research and Development
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Arhiv za Poljoprivredne Nauke
Arid Soil Research and Rehabilitation
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Arnoldia (Boston)
Arquivos de Biologia e Tecnologia
Arroz en las Américas
Aspects of Applied Biology
Assiut Journal of Agricultural Sciences
ATAC, Revista de la Asociación de Tecnicos Azucareros de Cuba
Australasian Plant Pathology
Australian & New Zealand Wine Industry Journal
Australian Journal of Agricultural Research
Australian Journal of Biotechnology
Australian Journal of Botany
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Australian Journal of Plant Physiology
Australian Plant Introduction Review
Australian Plants
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Avance Agroindustrial
Bahçe
Baicheng District Agricultural Science
Bangladesh Journal of Agricultural Research
Bangladesh Journal of Agricultural Sciences
Bangladesh Journal of Crop Science
Bangladesh Journal of Scientific and Industrial Research
Bangladesh Journal of Zoology
Barley Genetics Newsletter
Bayerisches Landwirtschaftliches Jahrbuch
Bayerisches Landwirtschaftliches Jahrbuch, Sonderheft
Beiträge zur Biologie der Pflanzen
Beiträge zur Tabakforschung International
Beiträge zur Tropischen Landwirtschaft und Veterinärmedizin
Beretning - Landbrugsministeriet Plantedirektoratet
Berichte der Gesellschaft für Pflanzenbauwissenschaften
Berita - Pusat Penelitian Perkebunan Gula Indonesia
Berita ISOPB
Betteravier (Bruxelles)
Bharatiya Sugar
Bio/Technology
Biochemical and Biophysical Research Communications
Biochemical Archives
Biochemical Genetics
Biochemical Journal (London)
Biochemical Systematics and Ecology
Biochemie und Physiologie der Pflanzen
Biochemistry and Cell Biology
Biochimica et Biophysica Acta, Gene Structure and Expression
Biodiversity and Conservation
BioEssays
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Biological Conservation
Biological Journal of the Linnean Society
Biologisches Zentralblatt
Biology and Fertility of Soils
Biology Bulletin of the Academy of Sciences of the USSR
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Biology Education
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Biuletyn Instytutu Hodowli i Aklimatyzacji Roślin
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Bois et Forêts des Tropiques
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Boletim Técnico - Empresa de Pesquisa Agropecuária e Difusão de Tecnologia de Santa Catarina S.A.
Boletín - Instituto Nacional de Ciencias Agrícolas
Boletín de Promecafé
Boletín de Sanidad Vegetal, Plagas
Boletín Técnico de Ciencias Biológicas, Universidad de la República, Regional Norte (Sede Salto)
Bollettino Società Italiana di Biologia Sperimentale
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Botanica Acta
Botanica Helvetica
Botanical Bulletin of Academia Sinica
Botanical Gazette (Chicago)
Botanical Journal of the Linnean Society
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Buletinul Institutului Agronomic Cluj-Napoca. Seria Agricultură şi Horticultură
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Bulletin - Pusat Penelitian Perbetunan Gula Indonesia
Bulletin - Scottish Crop Research Institute
Bulletin - Virginia Agricultural Experiment Station
Bulletin de la Société Botanique de France, Lettres Botaniques
Bulletin des Recherches Agronomiques de Gembloux
Bulletin of Botanical Research
Bulletin of Entomological Research
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Bulletin of the Research Institute for Bioresources, Okayama University
Bulletin of the Shimane Agricultural Experiment Station
Bulletin of the Tobacco Research Institute, Taiwan Tobacco & Wine Monopoly Bureau
Bulletin OILB/SROP
Byulleten' Glavnogo Botanicheskogo Sada
Byulleten' Moskovskogo Obshchestva Ispytateleĭ Prirody, Biologicheskiĭ
Cactus and Succulent Journal
Cahiers Agricultures
Canadian Biodiversity
Canadian Entomologist
Canadian Institute of Food Science and Technology Journal
Canadian Journal of Animal Science
Canadian Journal of Botany
Canadian Journal of Forest Research
Canadian Journal of Microbiology
Canadian Journal of Plant Pathology
Canadian Journal of Plant Science
Canadian Plant Disease Survey
Capsicum Newsletter
Cassava Newsletter
Cell (Cambridge)
Cell Biology International Reports
Centerpoint (Taiwan)
Centralblatt für das Gesamte Forstwesen
Centro Agrícola
Centro Azúcar
Cercetări Agronomice în Moldova
Cereal Chemistry
Cereal Foods World
Cereal Research Communications
Cereal Rusts and Powdery Mildews Bulletin
Ceres (Rome)
Chemical and Pharmaceutical Bulletin
Chemical Regulation of Plants
Chemistry and Industry (London)
Chemoecology
Chimica Oggi
China Citrus
China Fruits
China's Fibre Crops
Chinese Journal of Applied Ecology
Chinese Journal of Biotechnology
Chinese Journal of Ecology (Beijing)
Chinese Journal of Rice Science
Chinese Vegetables
Chromatin
Chromosoma
Ciência e Cultura (São Paulo)
Ciência Rural
Ciencias del Suelo, Riego y Mecanización
CIMMYT World Maize Facts and Trends
CIP Circular
CIP Research Guide

Circular - Alabama Agricultural Experiment Station, Auburn University
Circular - Louisiana Agricultural Experiment Station
Citrus Journal
Colección Información Técnica Agraria. Serie Agricultura
Colture Protette
Comments from CAST
Commonwealth Forestry Review
Communications in Soil Science and Plant Analysis
Compact Fruit Tree
Comptes Rendus de l'Académie Bulgare des Sciences
Comptes Rendus de l'Académie d'Agriculture de France
Comptes Rendus de l'Académie des Sciences. Series 3, Sciences de la Vie
Computer Applications in the Biosciences
Computer Applications Series - Louisiana Agricutural Experiment Station
Comunicado Técnico - Empresa de Pesquisa Agropecuária do Estado do Rio de janeiro
Comunicado Técnico - Unidade de Execução de Pesquisa de Âmbito Estadual de Belém
Comunicado Técnico - Unidade de Execução de Pesquisa de Âmbito Estadual de Dourados
Comunicado Técnico Especial - Comissão Executiva do Plano da Lavoura Cacaueira, COPES
Conservation Biology
Cooperative Sugar
Coton et Fibres Tropicales
Critical Reviews in Plant Sciences
Crop Genetic Resources
Crop Improvement
Crop Protection
Crop Research (Hisar)
Crop Science
Cryo-letters
Cryobiology
Cuba Azúcar
Culture & Agriculture
Current Biology
Current Genetics
Current Opinion in Biotechnology
Current Opinion in Cell Biology
Current Opinion in Genetics & Development
Current Research - University of Agricultural Sciences (Bangalore)
Current Science
Current Topics in Plant Biochemistry and Physiology
Cytobios
Cytogenetics and Cell Genetics
Cytologia
Developmental Biology
Developmental Genetics
Dissertation Abstracts International. B, Sciences and Engineering
Diversity
DNA Sequence
Documentos - Empresa Catarinense de Pesquisa Agropecuária
Doğa, Türk Biyoloji Dergisi
Doğa, Türk Botanik Dergisi
Doğa, Türk Tarım ve Ormancılık Dergisi
Doklady Akademii Nauk Belarusi
Doklady Vsesoyuznoĭ Ordena Lenina i Ordena Trudovogo Krasnogo Znameni Akademii Sel'skokhozyaĭstvennykh Nauk imeni V. I. Lenina
Doklady, Biological Sciences
Ecology
Economic Botany
Edinburgh Journal of Botany
Eesti Teaduste Akadeemia Toimetised, Bioloogia
Ege Üniversitesi Ziraat Fakültesi Dergisi
Egyptian Journal of Agronomy
Élelmezési Ipar
EMBO Journal
Entomologia Experimentalis et Applicata
Ėntomologicheskoe Obozrenie
Environment and Ecology
Environmental and Experimental Botany
Environmental Entomology
Ernstia
Erwerbsobstbau
Euphytica
European Journal of Biochemistry
European Journal of Clinical Nutrition
European Journal of Forest Pathology
Eurosoya
Evolucion Biologica
Evolution
Evolutionary Biology
Evolutionary Ecology
Evolutionary Trends in Plants
Experientia
Experimental Agriculture
Experimental Mycology
FABIS Newsletter
FAGINFO
Fagopyrum
Farm & Food
FEBS Letters
Feddes Repertorium
Fett Wissenschaft Technologie
Field Crops Research
Fitopatología
Fitopatología Colombiana
Fitopatología Venezolana
Fiziologiya i Biokhimiya Kul'turnykh Rasteniĭ
Fiziologiya Rasteniĭ
Flavour and Fragrance Journal
Flora (Jena)
Flora Mediterranea
Florida Entomologist
Folia Horticulturae
FONAIAP Divulga
Food Biotechnology
Food Manufacture International
Food Structure
Forest Ecology and Management
Forest Genetic Resources Information
Forest Science
Forestry (Oxford)
Forestry Commission Bulletin
Forstarchiv
Forum for Development Studies
Fourrages
Fragmenta Floristica et Geobotanica
Fruit Science Reports
Fruit Varieties Journal
Fruitteelt (Den Haag)
Fujian Agricultural Science and Technology
Functional Ecology
Fundamental and Applied Nematology
Gamma Field Symposia
Gansu Nongye Daxue Xuebao
Garden (London)
Gartenbauwissenschaft
Gazeta Cukrownicza
Gb + Gw, Gärtnerbörse und Gartenwelt
Gemüse (München)
Gene
Genes & Development
Genetic Resources and Crop Evolution
Genetica
Genetica Polonica
Genetical Research
Genetics
Genetics, Selection, Evolution
Genetika (Beograd)
Genetika (Moskva)
Genetika a Šlechtění
Genetika i Selektsiya
Genome
Genomics (San Diego)
Gesunde Pflanzen
Grøn Viden, Havebrug
Grøn Viden, Landbrug
Grana
Grass and Forage Science
Grassland of China
Groundnut News
Grüne
Guangdong Agricultural Science
Hamdard Medicus
Harvest (Port Moresby)
Haryana Agricultural University Journal of Research
Haryana Journal of Agronomy
Haryana Journal of Horticultural Sciences
Hawaii Mac Facts
Hawaiian Planters' Record
Helia
Henan Nongye Kexue
Herba
Herba Hungarica
Hereditas (Beijing)
Hereditas (Landskrona)
Heredity
Highlights of Agricultural Research in Ontario
Hodowla Roślin, Aklimatyzacja i Nasiennictwo
Holly Society Journal
Horticulturist
HortScience
HortTechnology
IAR Newsletter of Agricultural Research
IBPGR Newsletter for Asia and the Pacific
IBPGR Newsletter for Asia, the Pacific and Oceania
IIHR News
IITA Research
Illinois Research

IMPACT AgBioBusiness
Impact of Science on Society
In Vitro Cellular and Developmental Biology - Plant
Indian Agriculturist
Indian Botanical Reporter
Indian Cocoa, Arecanut and Spices Journal
Indian Coconut Journal (Cochin)
Indian Farming
Indian Forester
Indian Horticulture
Indian Journal of Agricultural Research
Indian Journal of Agricultural Sciences
Indian Journal of Agronomy
Indian Journal of Applied and Pure Biology
Indian Journal of Biochemistry & Biophysics
Indian Journal of Entomology
Indian Journal of Experimental Biology
Indian Journal of Genetics & Plant Breeding
Indian Journal of Hill Farming
Indian Journal of Horticulture
Indian Journal of Mycology and Plant Pathology
Indian Journal of Natural Rubber Research
Indian Journal of Plant Physiology
Indian Journal of Plant Protection
Indian Journal of Pulses Research
Indian Journal of Virology
Indian Perfumer
Indian Phytopathology
Indian Sugar
Indonesian Journal of Tropical Agriculture
Industrial Crops Research Journal
Informaciones Técnicas - Departamento de Agricultura, Ganadería y Montes, Diputación General de Aragón
Informativo ABRATES
Informatore Agrario
Informatore Fitopatologico
Inligtingsbulletin - Instituut vir Tropiese en Subtropiese Gewasse
Inligtingsbulletin - Navorsingsinstituut vir Sitrus en Subtropiese Vrugte
Insect Science and its Application
Interciencia
International Arachis Newsletter
International Chickpea Newsletter
International Journal of Plant Sciences
International Journal of Tropical Agriculture
International Journal of Tropical Plant Diseases
International Pigeonpea Newsletter
International Rice Research Newsletter
Investigación Agraria, Producción y Protección Vegetales
Iranian Journal of Agricultural Sciences
Iranian Journal of Plant Pathology
IRRI Research Paper Series
ITEA, Producción Animal
ITEA, Producción Vegetal
Ivy Journal
Izvestiya Akademii Nauk SSSR, Seriya Biologicheskaya
Izvestiya Akademii Nauk Turkmenistana. Seriya Biologicheskikh Nauk
Izvestiya Akademii Nauk. Seriya Biologicheskaya
Izvestiya Sibirskogo Otdeleniya Akademii Nauk SSSR. Seriya Biologicheskikh Nauk
Izvestiya Timiryazevskoĭ Sel’skokhozyaĭstvennoĭ Akademii
Japanese Journal of Breeding
Japanese Journal of Crop Science
Japanese Journal of Genetics
Japanese Journal of Nematology
Japanese Journal of Tropical Agriculture
JARQ, Japan Agricultural Research Quarterly
Jiangsu Journal of Agricultural Sciences
JIAS, Journal of the Iowa Academy of Science
Journal - American Society of Sugar Cane Technologists
Journal of Agricultural and Food Chemistry
Journal of Agricultural Research of China
Journal of Agricultural Science
Journal of Agricultural Science in Finland
Journal of Agricultural Science, Tokyo Nogyo Daigaku
Journal of Agriculture and Forestry
Journal of Agriculture of the University of Puerto Rico
Journal of Agronomic Education
Journal of Agronomy and Crop Science
Journal of Animal Physiology and Animal Nutrition
Journal of Animal Science
Journal of Applied Entomology
Journal of Applied Phycology
Journal of Applied Probability
Journal of Biochemistry (Tokyo)
Journal of Biological Chemistry
Journal of Bioresources
Journal of Biotechnology
Journal of Cell Science
Journal of Cereal Science
Journal of Chemical Ecology
Journal of Chemical Technology & Biotechnology
Journal of Chromatography
Journal of Coffee Research
Journal of Development Economics
Journal of Ecology (Oxford)
Journal of Economic Entomology
Journal of Entomological Research
Journal of Entomological Science
Journal of Environmental Health
Journal of Environmental Horticulture
Journal of Essential Oil Research
Journal of Ethnopharmacology
Journal of Evolutionary Biology
Journal of Experimental Botany
Journal of Extension Systems
Journal of Food Composition and Analysis
Journal of Food Science
Journal of Forestry
Journal of Fruit Science
Journal of Fujian Agricultural College
Journal of Gansu Agricultural University
Journal of General and Applied Microbiology
Journal of General Virology
Journal of Genetics & Breeding
Journal of Hebei Agricultural University
Journal of Herbs, Spices & Medicinal Plants
Journal of Heredity
Journal of Horticultural Science
Journal of Huazhong Agricultural University
Journal of Insect Science
Journal of Japanese Botany
Journal of Jiangsu Agricultural College
Journal of Jilin Agricultural University
Journal of Law and Economics
Journal of Maharashtra Agricultural Universities
Journal of Mathematical Biology
Journal of Molecular Biology
Journal of Molecular Evolution
Journal of Mycopathological Research
Journal of Nanjing Agricultural University
Journal of Nanjing University, Natural Sciences Edition
Journal of Natural Products
Journal of Natural Rubber Research
Journal of Nematology
Journal of Northeast Agricultural College
Journal of Nuclear Agriculture and Biology
Journal of Nuclear-Agricultural Sciences
Journal of Oilseeds Research
Journal of Phytological Research
Journal of Phytopathology
Journal of Plant Growth Regulation
Journal of Plant Nutrition
Journal of Plant Physiology
Journal of Plant Protection in the Tropics
Journal of Plant Resources and Environment
Journal of Plantation Crops
Journal of Production Agriculture
Journal of Range Management
Journal of Research APAU
Journal of Research, Punjab Agricultural University
Journal of Seed Technology
Journal of Shandong Agricultural Science
Journal of Shandong Agricultural University
Journal of Shanghai Agricultural College
Journal of Shenyang Agricultural University
Journal of Sichuan Agricultural University
Journal of Small Fruit & Viticulture
Journal of Soils and Crops
Journal of South China Agricultural University
Journal of Southwest Agricultural University
Journal of Spices and Aromatic Crops
Journal of Sugar Beet Research
Journal of Taiwan Livestock Research
Journal of Tea Science
Journal of the Adelaide Botanic Gardens
Journal of the Agricultural Society - University College of Wales
Journal of the American Oil Chemists’ Society
Journal of the American Society for Horticultural Science
Journal of the Andaman Science Association
Journal of the Assam Science Society
Journal of the Bombay Natural History Society
Journal of the Faculty of Agriculture, Hokkaido University
Journal of the Faculty of Agriculture, Kyushu University
Journal of the Faculty of Agriculture, Shinshu University
Journal of the Indian Society for Cotton Improvement
Journal of the Indian Society of Soil Science
Journal of the Japanese Forestry Society
Journal of the Japanese Society for Horticultural Science
Journal of the Kansas Entomological Society
Journal of the Korean Society for Horticultural Science
Journal of the Korean Society of Tobacco Science
Journal of the National Botanical Society

Journal of the Niigata Agricultural Experiment Station
Journal of the Oil Technologists' Association of India
Journal of the Royal Agricultural Society of England
Journal of the Science of Food and Agriculture
Journal of the Southern African Society for Horticultural Sciences
Journal of Theoretical Biology
Journal of Tropical Forest Science
Journal of Turkish Phytopathology
Journal of Virological Methods
Jugoslovensko Voćarstvo
Kaen Kaset = Khon Kaen Agriculture Journal
Karnataka Journal of Agricultural Sciences
Kartofel' i Ovoshchi
Kartoffelbau
Kenya Coffee
Kew Bulletin
Kew Magazine
Khlopok
Korean Journal of Crop Science
Korean Journal of Mycology
Korean Journal of Plant Pathology
Korean Journal of Plant Taxonomy
Kromosomo II
Kühn-Archiv
Kukuruza i Sorgo
Landbauforschung Völkenrode
Landwirtschaft Schweiz
Lantmannen
Latvijas Zinātņu Akadēmijas Vēstis. B Daļa, Dabaszinātnes
Lavoura Arrozeira
Legume Research
Lens
Lesokhozyaĭstvennaya Informatsiya
Lily Yearbook of the North American Lily Society, Inc.
Lindleyana
Linzer Biologische Beiträge
Listy Cukrovarnické a Řepařské
Louisiana Agriculture
Madras Agricultural Journal
Madroño
Magnolia
Mais
Maize Genetics Cooperation Newsletter
Malaysian Applied Biology
Maydica
Meddelande från Statens Utsädeskontroll
Mededeling - Provinciaal Onderzoek- en Voorlichtingscentrum voor Land- en Tuinbouw, Beitem-Roeselare
Mededelingen van de Faculteit Landbouwwetenschappen, Rijksuniversiteit Gent
Memoirs of Faculty of Agriculture, Kagawa University
Memoirs of the College of Agriculture, National Taiwan University
Memoirs of the Faculty of Agriculture, Hokkaido University
Memoirs of the Faculty of Agriculture, Kagoshima University
Memoirs of the New York Botanical Garden
Menara Perkebunan
Mesopotamia Journal of Agriculture
Microbiological Reviews
Microbiology (Beijing)
Minnesota Horticulturist
Miscellaneous Publication - Texas Agricultural Experiment Station
Miscellaneous Publication of the Tohoku National Agricultural Experiment Station
Miscellaneous Reports - Agricultural Research Institute, Ministry of Agriculture and Natural Resources (Nicosia)
Mitteilungen der Botanischen Staatssammlung München
Mitteilungen der Deutschen Bodenkundlichen Gesellschaft
Mitteilungen der Forstlichen Versuchs- und Forschungsanstalt Baden-Württemberg
Mitteilungen Klosterneuburg, Rebe und Wein, Ostbau und Früchteverwertung
Mokslinių Straipsnių Rinkinys - Lietuvos Žemdirbystės Institutas
Mokuzai Gakkaishi = Journal of the Japan Wood Research Society
Molecular and Cellular Biology
Molecular and General Genetics
Molecular Biology and Evolution
Molecular Biology Reports
Molecular Ecology
Molecular Plant-Microbe Interactions
Monatsschrift für Brauwissenschaft
Monti e Boschi
Moscow University Biological Sciences Bulletin
Mountain Research and Development
Mühle + Mischfuttertechnik
Mutation Breeding Newsletter
Mutation Breeding Review
Mutation Reseach, DNA Repair
Mycological Research
Mysore Journal of Agricultural Sciences
Nachrichtenblatt des Deutschen Pflanzenschutzdienstes
National Academy Science Letters
Nature (London)
Nauchno-Tekhnicheskiĭ Byulleten' Vsesoyuznogo Selektsionno-Geneticheskogo Instituta
Nauchnye Trudy. Vsesoyuznyĭ Nauchno-Issledovatel'skiĭ Institut Farmatsii
Nauka u Praksi
NBRI Newsletter
Nematologia Brasileira
Nematologia Mediterranea
Nematropica
Netherlands Journal of Agricultural Sciences
Netherlands Journal of Plant Pathology
New Agriculturist
New Forests
New Phytologist
New Scientist
New York's Food and Life Sciences Bulletin
New Zealand Journal of Agricultural Research
New Zealand Journal of Botany
New Zealand Journal of Crop and Horticultural Science
New Zealand Journal of Forestry Science
Newsletter - British Society for Plant Growth Regulation
Newsletter - Sugarcane Breeding Institute
Ningxia Journal of Agro-Forestry Sciences and Technology
Nippon Shokuhin Kogyo Gakkaishi = Journal of the Japanese Society for Food Science and Technology
Nippon Sochi Gakkaishi = Journal of Japanese Society of Grassland Science
Nogaku Kenkyu
NorAgric Occasional Papers. Series C, Development and Environment
Nordic Journal of Botany
Nordisk Jordbruksforskning
Norsk Landbruksforsking
North Carolina Flower Growers' Bulletin
North Dakota Farm Research
Northern Horticulture
Northwest Science
Norwegian Journal of Agricultural Sciences
Noticias Agrícolas
Növénytermelés
Növényvédelem
Novon
Nucleic Acids Research
Nucleus (Calcutta)
Nutrition Research
Nuytsia
Obstbau (Bonn)
Obstbau Weinbau
Occasional Paper - Forestry Research Support Programme for Asia and the Pacific (FORSPA)
Occasional Paper - National Horticultural Research Institute, Ibadan
Oecologia
Oikos
Oil Crops of China
Oléagineux (Paris)
Olivæ
Opera Botanica
Orchardist of New Zealand
Orissa Journal of Agricultural Research
Orissa Journal of Horticulture
Ormancılık Araştırma Enstitüsü Yayınları, Teknik Bülten
ORSTOM Actualités
Osteuropastudien der Hochschulen des Landes Hessen. Reihe 1, Giessener Abhandlungen zur Agrar- und Wirtschaftsforschung des Europäischen Ostens
Outlook on Agriculture
PAC Technical Paper - Pakhribas Agricultural Centre
PAC Working Paper - Pakhribas Agricultural Centre
Pacific Science
Pakistan Journal of Agricultural Economics
Pakistan Journal of Botany
Pakistan Journal of Nematology
Pakistan Journal of Phytopathology
Pakistan Journal of Scientific and Industrial Research
Pakistan Journal of Soil Science
Pakistan Journal of Zoology
Pakistan Sugar Journal
Partners in Research for Development
Pastos y Forrajes
PCARRD Monitor
PCR Methods and Applications
Peanut Science
Pemberitaan Penelitian Tanaman Industri
Pennsylvania Fruit News
Periodicum Biologorum
Pertanika
Pesquisa Agropecuária Brasileira
Pesquisa em Andamento - Centro de Pesquisa Agropecuária do Trópico Úmido
Pesquisa em Andamento - Unidade de Execução de Pesquisa de Âmbito Estadual de Belém - EMBRAPA

Pesticide Biochemistry and Physiology
Pflanzenschutzberichte
Philippine Agriculturist
Philippine Journal of Crop Science
Philippine Journal of Science
Philosophical Transactions of the Royal Society of London. Series B, Biological Sciences
PHILSUTECH Proceedings
Photosynthesis Research
Photosynthetica
Physiologia Plantarum
Physiological and Molecular Plant Pathology
Phytochemical Analysis
Phytochemistry
Phytoma
Phyton (Buenos Aires)
Phytoparasitica
Phytopathologia Mediterranea
Phytopathologica Polonica
Phytopathology
Phytophylactica
Phytoprotection
PKV Research Journal
Plant and Cell Physiology
Plant and Soil
Plant Breeding
Plant Breeding Abstracts
Plant Breeding News Letter
Plant Cell
Plant Cell Incompatibility Newsletter
Plant Cell Reports
Plant Cell, Tissue and Organ Culture
Plant Disease
Plant Disease Research
Plant Foods for Human Nutrition
Plant Genetic Resources Abstracts
Plant Genetic Resources Newsletter
Plant Growth Regulation
Plant Growth Regulator Society of America Quarterly
Plant Journal
Plant Material Description
Plant Molecular Biology
Plant Pathology
Plant Pest Forecasts
Plant Physiology
Plant Physiology & Biochemistry (New Delhi)
Plant Physiology and Biochemistry (Paris)
Plant Protection
Plant Protection Bulletin (Faridabad)
Plant Science (Limerick)
Plant Science Bulletin
Plant Systematics and Evolution
Plant Tissue Culture Letters
Plant Varieties & Seeds
Plant Varieties Journal
Plant Variety Protection Office Official Journal
Plant, Cell and Environment
Planta
Planta Medica
Plantsman
Pochvoznanie, Agrokhimiya i Ekologiya
Pomme de Terre Française
Postharvest Biology and Technology
Postharvest News and Information
Potato Research
Poultry Science
Prace Instytutu Sadownictwa i Kwiaciarstwa w Skierniewicach. Seria A, Prace Doświadczalne z Zakresu Sadownictwa
Prace z Zakresu Nauk Rolniczych
Prairie Naturalist
Pratacultural Science
Priroda
Probe. Newsletter of the USDA Plant Genome Research Program
Probleme de Genetică Teoretică şi Aplicată
Problems of Desert Development
Proceedings - Soil and Crop Science Society of Florida
Proceedings of the Association for Plant Protection of Kyushu
Proceedings of the Faculty of Agriculture, Kyushu Tokai University
Proceedings of the Indian Academy of Sciences, Plant Sciences
Proceedings of the Indian National Science Academy. Part B, Biological Sciences.
Proceedings of the Japanese Society of Sugar Beet Technologists
Proceedings of the National Academy of Sciences of the United States of America
Proceedings of the New Zealand Grassland Association
Proceedings of the Royal Society of Edinburgh. Section B, Biological Sciences
Proceedings of the Section Experimental and Applied Entomology of the Netherlands Entomological Society
Progrès Agricole et Viticole
Progress Report - Alabama Agricultural Experiment Station
Progress Report - Texas Agricultural Experiment Station
Progressive Horticulture
Prophyta
Protoplasma
Publication - Agriculture Canada (English ed.)
Publication - Atlantic Corn Hybrid Evaluation Comittee
Qinghai Xumu Shouyi Zazhi
Quarterly Bulletin of the North American Lily Society
Rachis
RAFI Communique
Range Management & Agroforestry
Rangelands
Rapport - Institutionen fö Trädgårdsvetenskap, Sveriges Landbruksuniversitet
Report - Cucurbit Genetics Cooperative
Report - Horticultural Research Institute of Ontario
Report of the Taiwan Sugar Research Institute
Research & Training Newsletter (Dar es Salaam)
Research and Development Reporter
Research Bulletin - International Crops Research Institute for the Semi-Arid Tropics
Research Bulletin - National Horticultural Research Institute, Ibadan
Research Bulletin of Obihiro University, Natural Science
Research Bulletin of the Hokkaido National Agricultural Experiment Station
Research Highlights - Tropical Agriculture Research Center
Research Journal of Food and Agriculture
Research Paper - Intermountain Research Station, USDA Forest Service
Research Report - Department of Agriculture and Rural Affairs (Melbourne)
Research Report - Georgia Agricultural Experiment Stations
Research Reports of the Rural Development Administration, Biotechnology
Research Reports of the Rural Development Administration, Horticulture
Research Reports of the Rural Development Administration, Rice
Research Reports of the Rural Development Administration, Sericulture, Agricultural Engineering & Farm Products Utilization
Research Reports of the Rural Development Administration, Sericulture, Farm Products Utilization & Mycology
Research Reports of the Rural Development Administration, Upland & Industrial Crops
Research Series - Arkansas Agricultural Experiment Station
Resistant Pest Management
Review of Research Work at the Faculty of Agriculture, Belgrade
Revista Baracoa
Revista Brasileira de Ciência do Solo
Revista Brasileira de Genética
Revista Ceres
Revista Chapingo
Revista Chilena de Historia Natural
Revista Colombiana de Entomologia
Revista de Agricultura (Piracicaba)
Revista de Ciencias Agropecuarias - Universidad Nacional de Córdoba, Facultad de Ciencias Agropecuarias
Revista de la Facultad de Agronomía (La Plata)
Revista de la Facultad de Agronomía, Universidad Central de Venezuela
Revista de la Facultad de Agronomía, Universidad del Zulia
Revista Forestal Baracoa
Revista Industrial y Agrícola de Tucumán
Revista Nacional de Agricultura (Bogotá)
Revue Agricole et Sucrière de l'Ile Maurice
Revue de l'Agriculture
Revue Générale des Caoutchoucs et Plastiques
Revue Roumaine de Biologie. Série de Biologie Végétale
Revue Suisse d'Agriculture
Revue Suisse de Viticulture, d'Arboriculture et d'Horticulture
Rhodora
Rice Genome
Rinboku Ikushujo Kenkyu Hokoku = Bulletin of the Forest Tree Breeding Institute, Kanto
Rivista di Agricoltura Subtropicale e Tropicale
Rivista di Agronomia
Rivista di Avicoltura
Rivista di Frutticoltura e di Ortofloricoltura
Rivista di Patologia Vegetale
Rivista di Viticoltura e di Enologia
Roczniki Nauk Rolniczych. Seria A, Produkcja Roślinna
Rostlinná Výroba
Rural Research
Russian Journal of Plant Physiology
SACCAR Newsletter
Sadovodstvo i Vinogradarstvo
Sakharnaya Svekla
Sakharnaya Svekla: Proizvodstvo i Pererabotka
Samaru Journal of Agricultural Research
Sandakania
Sarhad Journal of Agriculture
Savremena Poljoprivreda
Sbornik - Akademie Zemědělských Věd ČSFR

Sbornik Nauchnykh Stateĭ, Litovskiĭ Nauchno-Issledovatel'skiĭ Institut Zemledeliya
Sborník ÚVITZ, Zahradnictví
Sborník ÚVTIZ, Ochrana Rostlin
Sborník Vysoké Školy Zemědělské v Praze, Fakulta Agronomická. Řada A, Rostlinná Výroba
Scandinavian Journal of Forest Research
Schriftenreihe des Bundesministers für Ernährung, Landwirtschaft und Forsten. Reihe A, Angewandte Wissenschaft
Schweizerische Zeitschrift für Forstwesen
Schweizerische Zeitschrift für Obst- und Weinbau
Science (Washington)
Science and Public Affairs (London)
Science Bulletin of the Faculty of Agriculture, Kyushu University
Science of Sericulture
Science of the Total Environment
Scientia Agricultura Sinica
Scientia Agriculturae Bohemoslovaca
Scientia Horticulturae
Scientific Reports of the Faculty of Agriculture, Okayama University
Scientific Studies - OSEVA Research Institute for Fodder Plants, OSEVA Breeding Institute for Fodder Plants
Seed and Plant
Seed Science and Technology
Seed Science Research
Seed World (Des Plaines)
Seeds & Farms
Sel'skokhozyaĭstvennaya Biologiya
Selektsiya i Semenovodstvo (Moskva)
Selskostopanska Nauka
Sementi Elette
Serie Técnica - Centro de Investigación de la Caña de Azucar de Colombia
Sexual Plant Reproduction
Shaanxi Journal of Agricultural Sciences
Shade Tree
Shanxi Agricultural Science
Shelk
Sibirskiĭ Biologicheskiĭ Zhurnal
Sibirskiĭ Vestnik Sel'skokhozyaĭstvennoĭ Nauki
Silvae Genetica
Simiente
SISSTA Sugar Journal
Sjemenarstvo
Soil Science and Plant Nutrition
Soil Science Society of America Journal
Sorghum Newsletter
South African Forestry Journal
South African Journal for Enology and Viticulture
South African Journal of Animal Science
South African Journal of Botany
South African Journal of Plant and Soil
South Dakota Farm & Home Research
South Indian Horticulture
Southern Journal of Agricultural Economics
Southwest China Journal of Agricultural Sciences
Southwestern Entomologist
Soviet Agricultural Sciences
Soviet Biotechnology
Soviet Plant Physiology
Soybean Genetics Newsletter
Soybean Science
Special Circular - Ohio Agricultural Research and Development Center
Special Report - Agricultural Experiment Station, Division of Agriculture, University of Arkansas
Sri Lanka Journal of Tea Science
Studii şi Cercetări de Biologie, Biologie Vegetală
Subtropical Plant Science
Sugar Cane
Summa Phytopathologica
Sveriges Utsädesförenings Tidskrift
Swedish Journal of Agricultural Research
Systematic Botany
Taiwan Sugar
Taiwania
Tappi Journal
TARC Newsletter - Tropical Agriculture Research Center
Taxon
Tea
Technical Bulletin - Cyprus Agricultural Research Institute
Technical Bulletin - Food and Fertilizer Technology Center
Technical Bulletin - Mississippi Agricultural and Forestry Experiment Station
Technical Bulletin - Northern Territory, Department of Primary Industry and Fisheries
Technical Bulletin - United States Department of Agriculture
Technical Bulletin of the Tropical Agriculture Research Center
Technical Communication - Department of Agricultural Development, South Africa
Technical Information Bulletin - International Potato Center
Technical News - Institute of Radiation Breeding
Technique, a Journal of Methods in Cell and Molecular Biology
Technote (Darwin)
Tecnica Molitoria
Telopea
Tennessee Farm and Home Science
Tests of Agrochemicals and Cultivars
Thai Forest Bulletin (Botany)
Thaiszia
Themaboekje - Proefstation en Informatie- en Kenniscentrum voor de Akkerbouw en de Groenteteelt in de Vollegrond
Theoretical and Applied Genetics
Theoretical Population Biology
Tidsskrift for Planteavl
Tobacco Research
Tohoku Nogyo Shikenjo Kenkyu Shiryo = Miscellaneous Publication of the Tohoku National Agricultural Experiment Station
Transgenic Research
Treatises and Monographs - Institute of Plant Genetics, Polish Academy of Sciences
Tree Physiology
Trees: Structure and Function
Trends in Biotechnology
Trends in Ecology & Evolution
Trends in Food Science & Technology
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Tropenlandwirt
Tropical Agriculture
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Tsitologiya
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UNILET Informations
United States Patent
Uspekhi Sovremennoĭ Biologii
USSR Patent
Växtodling
Växtskyddsnotiser
Växtskyddsrapporter, Jordbruck
Vegetable Grower
Verbondsnieuws voor de Belgische Sierteelt
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Willdenowia
Wood and Fiber Science
World Farmers' Times
World Journal of Microbiology & Biotechnology
Yearbook - South African Avocado Growers' Association
Zashchita Rasteniĭ (Moskva)
Zaštita Bilja
Zbornik Radova Poljoprivrednog Fakulteta, Univerzitet u Beogradu
Zeitschrift für Pflanzenernährung und Bodenkunde
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Zemljište i Biljka
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CAB International (CABI) is an international, inter-governmental organization. It is owned by its member governments; these currently number 34, but membership is open to any others wishing to participate. Established in 1928, the organization provides information, scientific and development services for agriculture and allied disciplines throughout the world.

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The main task of the Information Services, located at the CAB International Centre (CABIC) at Wallingford, is the creation of a bibliographic database (CAB ABSTRACTS) of research on agriculture, forestry, the environment, applied social sciences and aspects of human medicine.

Relevant scientific and technical literature is acquired worldwide for abstracting and indexing by almost 100 scientists/linguists in five divisions:

- Animal Health & Medical Parasitology
- Animal Production & Human Nutrition
- Crop Protection & Genetics
- Crop Production
- Natural Resources, Forestry & Economics

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Abstract journals and electronic products derived from the database, and online access to it, provide unique sources of information for research scientists, development planners, educators and students.

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International Mycological Institute
Director, Professor D.L. Hawksworth, located at Bakeham Lane, Egham, Surrey, TW20 9TY.

International Institute of Parasitology
Director, Dr R. Muller, located at Winches Farm, St Albans, Herts, AL4 0XU.

International Institute of Biological Control ,
Director, Dr J.K. Waage, has its headquarters at Silwood Park, Ascot and stations in Trinidad and Tobago, Switzerland, Pakistan, Kenya and Malaysia.

These Institutes provide an authoritative identification service for agricultural pests and other organisms, a biocontrol service, and conduct research, implement projects, and provide training in their fields of expertise.

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